10/593, 169

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

REC'D	0 4	SEP	2006
WIPO	******	~~~~	PCT

Applicant's or agent's file reference 2004CH003	FOR FURTHER ACT	rion s	ee Form PCT/IPEA/416			
International application No. PCT/IB2005/000569	International filing date (d. 02.03.2005	ay/month/year)	Priority date (day/month/year) 17.03.2004			
International Patent Classification (IPC C07F9/09	International Patent Classification (IPC) or national classification and IPC C07F9/09					
Applicant CLARIANT INTERNATIONAL LTD et al.						
This report is the International Authority under Article 35 and	 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 					
2. This REPORT consists of a t						
	The report is also assumptioned by Arriveries, comprising:					
a. U sent to the applicant a	a. Sent to the applicant and to the International Bureau) a total of sheets, as follows:					
	sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).					
sheets which super beyond the disclosupplemental Box		n this Authority consider tion as filed, as indicate	rs contain an amendment that goes ed in item 4 of Box No. I and the			
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).						
4. This report contains indication	s relating to the following item					
_	_	> .	·			
1 —	Box No. I Basis of the opinion					
_	hmant of calaba with					
	hment of opinion with regard to	o novelty, inventive step	and industrial applicability			
☐ Box No. V Reasoned s						
☐ Box No. VI Certain docu	ments cited	porting about statement				
	cts in the international applicat	lon				
☐ Box No. VIII Certain obse	rvations on the international ap	pplication				
Date of submission of the demand		te of completion of this rep	port			
06.12.2005		.02.2006				
Name and mailing address of the interna- preliminary examining authority:	ional Au	thorized Officer				
European Patent Office			B. Comment of the Com			
D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d		chter, H	(0)))			
Fax: +49 89 2399 - 4465		ephone No. +49 89 2399-	Ser. Ouges words			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/IB2005/000569

_				
	Box No. I Basis of the repor	t		
1.	With regard to the language, the filed, unless otherwise indicated	fith regard to the language , this report is based on the international application in the language in which it was ed, unless otherwise indicated under this item.		
	which is the language of a functional search (under publication of the international search)	nslations from the original language into the following language, translation furnished for the purposes of: der Rules 12.3 and 23.1(b)) ational application (under Rule 12.4) examination (under Rules 55.2 and/or 55.3)		
2.	With regard to the elements* of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):			
	Description, Pages			
	1-13	as originally filed		
	Claims, Numbers			
	1-9	as originally filed		
	□ a sequence listing and/or ar	ny related table(s) - see Supplemental Box Relating to Sequence Listing		
3.	☐ The amendments have result the description, pages ☐ the claims, Nos. ☐ the drawings, sheets/figs ☐ the sequence listing (specially any table(s) related to see	s ecify):		
4.	☐ This report has been estable had not been made, since they is Supplemental Box (Rule 70.2(c))☐ the description, pages☐ the claims, Nos.☐ the drawings, sheets/figs☐ the sequence listing (specific any table(s) related to see	s ecify):		
	* If item 4 applies, so	ome or all of these sheets may be marked "superseded."		

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/IB2005/000569

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

2-4,6-9

No:

Claims

Inventive step (IS)

Yes: Claims

6,9

No: Claims

2-4,7,8

1,5

Industrial applicability (IA)

Yes: Claims

1-9

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 1. Reference is made to the following documents:
 - D1: DATABASE CHEMABS [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; 1994, WACHI, TOSHIO ET AL: "Preparation of phosphate triesters" XP002289140 retrieved from STN Database accession no. 1994:54693
 - D2: CARIES RESEARCH, 25(1), 51-7 CODEN: CAREBK; ISSN: 0008-6568, 1991, XP009034124
 - D3: WO 02/08164 A (BASF AG; MAAS HEIKO (DE); TROPSCH JUERGEN (DE)) 31 January 2002 (2002-01-31)
 - D4: WO 03/091192 A (BASF AG; RULAND ALFRED (DE); BOEHN ROLAND (DE); HACKMANN CLAUS (DE);) 6 November 2003 (2003-11-06)
 - D5: DE 203 03 420 U1 (SASOL GERMANY GMBH) 30 October 2003 (2003-10-30)
- 2. D1, see RN 151834-99-0, Field "CN" und fig., already discloses a compound according to formula I, in which the variables have the following meanings:

m = 3

n = 2 oder 3

x = 5

s = 1

r = 3

r + s = 4

Claim 1, therefore, lacks novelty over D1.

D2, page 52, left hand column "Alkyl Phosphates" describes the phosphoric acid

monoester of tetraethylenglykol-mono-(2-ethylhexyl)etherr und das disodiumsalt (E) therof and at page 53 tables 1 and 2 tooth protection agents against streptokokkus consisting of (E) and distilled water or (E), dist. water and non-ionic surfaceactive agent.

The free acid of (E) meets the variables of claim 1:

m = 1 n = 2 x = 4 s = 1 r = 3 r + s = 4

Hence, claims 1 und 5 lack novelty over D2.

D3-D5 are no anticipations. D3 discloses alcohol residues which are different from formula II; D4 is concerned with guerbet oligoalkoxylate but does not disclose phosphate esters thereof. D5 only discloses a broader generic definition of phosphateesters of guerbet oligoalkoxilates. In contrast thereto the novel compounds of formula I according to claim 1 are novel as being a selection.

3. Compounds known from D1 and D2 can be prepared and used in analogy to known processes from (see the search report for the specific disclosures). Hence, claims 3,4,8 are obvious over the combination D1/D3 or D2/D3. Furthermore, preparation and use of still new compounds is obvious over the combination of D5 (page 11, lines 20-26) or D4 (example 1) with D3 (example 7, claims 12 and 19). Hence, in addition to the novelty objection claims 1-5, 7 and 8 also obvious.